



(19)

Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

EP 0 909 057 A2

(12)

## EUROPEAN PATENT APPLICATION

(43) Date of publication:  
14.04.1999 Bulletin 1999/15

(51) Int Cl.<sup>6</sup> H04L 12/24, G06F 9/44

(21) Application number: 98402350.7

(22) Date of filing: 24.09.1998

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE  
Designated Extension States:  
AL LT LV MK RO SI

(72) Inventors:  
• Ismael, Osman Abdoul  
38000 Grenoble (FR)  
• Rigori, Serge Andre  
38120 Proveysieux (FR)

(30) Priority: 06.10.1997 US 944174

(74) Representative: Harris, Ian Richard et al  
D. Young & Co.,  
21 New Fetter Lane  
London EC4A 1DA (GB)

(71) Applicant: SUN MICROSYSTEMS, INC.  
Palo Alto, California 94303 (US)

## (54) Bean-based management system

(57) A network management system is generated by composing a network management model using a bean-based environment and then compiling the model to implement the computer network management system in the bean-based environment. Beans provide a set of properties, a set of methods for performing actions, and support for events and for introspection. The

beans are directly able to model the characteristics of components of a system to be modelled. The beans can also be compiled directly to provide the implementation of the model. As a result, the need for a separate environment for modelling a management system from that used to implement that management system can be avoided.

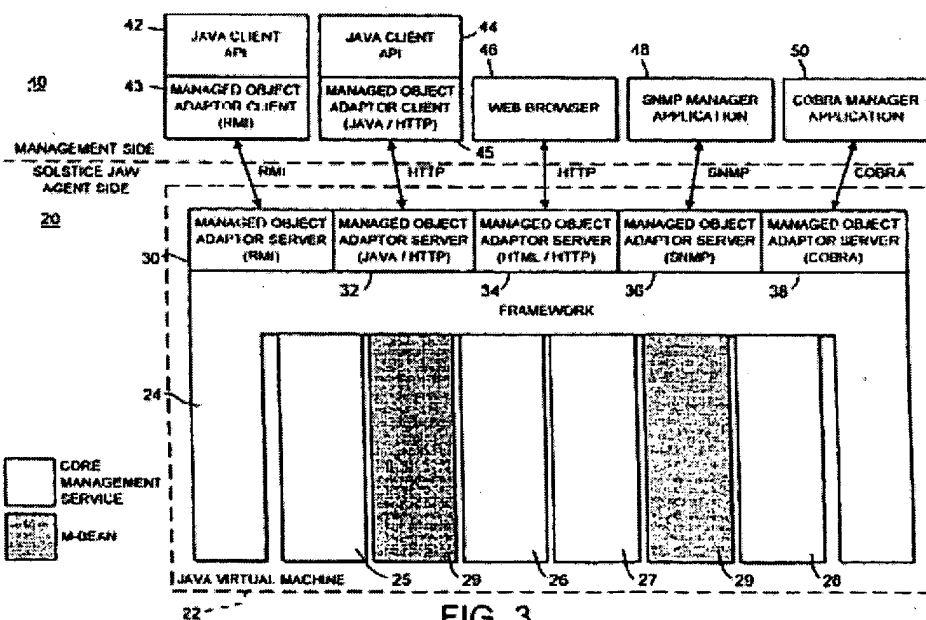


FIG. 3

EP 0 909 057 A2